

## About Electronics & ICT Academy at PDPM IITDM Jabalpur



The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized academic programmes for students, corporate sectors and researchers.

## About IITDM Kancheepuram

The course will be organized by Indian Institute of Information Technology Design & Manufacturing Kancheepuram. It is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, Govt. of India. To pursue design and manufacturing oriented engineering education and research and for promoting the competitive advantage of Indian products in global markets. The Institute is presently offering UG, PG, and Ph.D programmes in Computer Engineering, Electronics & Communication Engineering and Mechanical Engineering and School of Interdisciplinary Design and Innovation.

## Faculty Development Programme On

### Power Electronics Applications in Renewable Energy Systems and E-Vehicles

The proposed program covers sustainable energy systems, including the various methods of energy storage and their incorporation into and integration with both conventional and renewable energy systems and Electrical vehicle technologies.

**Who can attend:** It is suitable for faculty from colleges, universities, and technical and professional institutes to attend. Students, fresh graduates, researchers and personnel from industry & startups working on electric vehicles, renewable energy technologies and allied disciplines can also attend.

### Important Dates:

**Last Date of Online Registration: 10/Apr/2025**

**FDP Dates: 22-27 April 2025**

**Venue: Senate Hall, IITDM Kancheepuram**

### Coordinators:

#### Dr. B. Chitti Babu

Associate Professor & Head

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Indian Institute of Information Technology  
Design and Manufacturing Kancheepuram,

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#### Dr. Sachin K. Jain

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## Faculty Development Programme On Power Electronics Applications in Renewable Energy Systems and E-Vehicles (Hybrid Mode)

Jointly Organized by  
IITDM Kancheepuram, Chennai



and  
Electronic and ICT Academy  
IITDM Jabalpur



*An Initiative of the Ministry of  
Electronics and Information  
Technology, Government of India*



## Faculty Development Programme

On

### Power Electronics Applications in Renewable Energy Systems and E-Vehicles

22-27, April 2025

#### Resource Persons

- Prof. S R Mohanty, IIT Bhu
- Prof. Ranjan Kumar Behera, IIT Patna
- Prof. S.Kumaravel, NIT Calicut
- Prof. Sabharaj Arya, SVNIT, Surat
- Prof. M. P. Selvan, NIT Trichy
- Dr.G.Sivakumar, NIT Warangal
- Dr.Depankar Debnath, IIT KGP
- Dr. K. Vijayakumar, IIITDM Kancheepuram
- Dr. B.Chitti Babu, IIITDM Kancheepuram
- Dr. Sachin K Jain, IIITDM Jabalpur
- Dr.Madhan Mohan, Hitachi Energy, Chennai

#### Course Contents

- Overview of Renewable power generation systems (wind & PV).
- Grid integration of renewable energy systems, including power quality and reactive power control.
- Grid synchronization techniques for grid-connected power converters.
- Energy storage technologies for E-vehicles.
- Electric Drive technologies for E-vehicles.

- Battery storage and electrical vehicle integration.
- Fuel cell energy storage – issues and challenges
- Design, control, and apply battery energy storage in off-grid systems.

#### Programme Features

- Understanding wind and solar PV power generation systems.
- Grid integration techniques with power quality and synchronization.
- Exploration of E-vehicles- Sizing, selection, opportunities.
- Design and control of Hybrid energy systems.
- Insights into battery storage and EV integration

#### Registration Details

- Registration link – Please fill out registration using the following link:

<https://forms.gle/srBzAabGfspawavv5>

Registration fee: Rs. 1000/- (inclusive of 18% GST).

Last Date for Registration: **10<sup>th</sup>/Apr/2025**

#### Online Payment Details

Participants can click the below link:

<https://www.onlinesbi.sbi/sbicollect/icoll ecthome.htm?corpID=634626>

**Note:** Select Category as **FDP on RESS** for registration fee payment.

#### Chief-Patron

**Prof. M. V. Kartikeyan**

**Director**

Indian Institute of Information Technology  
Design and Manufacturing Kancheepuram,  
Chennai

#### Patron

**Prof. S. Jeyavel**

**Dean (SRICCE)**

Indian Institute of Information Technology  
Design and Manufacturing Kancheepuram,  
Chennai

&

**Prof. Aparajita Ojha,**

Chair, E&ICT Academy  
PDPM IIITDM Jabalpur

#### Contact us

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